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CLAIMS

1. A method of discriminating a sample for a sensor system which quantitates the concentration of a target substance contained in the sample by measuring electric current, said method comprising the steps of:

using a ratio of a measured current value to a timedifferential value of the current value as a discriminating parameter;

defining a discrimination function for discriminating kinds of a plurality of objective samples, said discrimination function using said discriminating parameter as an independent variable;

using a numeric value obtained by substituting the value of said discriminating parameter into said discrimination function, as a discriminating index; and

discriminating the kind of any sample based on said discriminating index.

- 2. The method according to claim 1, wherein said discrimination function is defined by means of an expression using a plurality of said discriminating parameters.
- 3. The method according to claim 1, wherein said discrimination function is defined by means of a linear expression for said discriminating parameter.
- 4: The method according to claim 1, wherein said discrimination function is defined by means of an expression

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of high degree for said discriminating parameter.

- 5. The method according to claim 1, wherein the kinds of the samples to be discriminated are a body fluid and a control fluid.
- 6. The method according to claim 5, wherein said sensor system is judged whether it is right or not based on a quantitated value of the concentration of the target substance contained in the control fluid, and then a resultant judgement is indicated.
 - 7. The method according to claim 1, wherein when the value of said discriminating index is within a predetermined range that it is difficult to discriminate the kind of the sample, the kind of the sample is not discriminated while the purport is indicated.